

IN THE CLAIMS

1. (previously presented) A method of transmitting data from a transmission apparatus to one of a plurality of receiving terminals, comprising:

communicating between said one receiving terminal and the transmission apparatus via an Internet system, said one receiving terminal being operable to receive a digital broadcasting signal;

receiving authentication data associated with said one receiving terminal;

authenticating said authentication data;

transmitting unique terminal information identifying said one receiving terminal as a destination of transmission and an update program to change the processing of said one receiving terminal, said unique terminal identification information being selected in a manner unrelated to said authentication data, and said transmitting step including converting said unique terminal information into converted unique terminal information comprising a key ID and transmitting said converted unique terminal information to said one receiving terminal;

updating the processing of said one receiving terminal, said updating step including receiving at said one receiving terminal said unique terminal information and said update program;

returning said converted unique terminal information comprising a key ID to said unique terminal information;

storing said unique terminal information and said update program in a storage location after said returning step;

transmitting from said one receiving terminal to said transmission apparatus a transfer request based on said update program and said unique terminal information; and

supplying data responsive to said transfer request from said transmission apparatus to said one receiving terminal based on said unique terminal information.

2-5. (canceled)

6. (currently amended) The data transmitting method according to claim 21, wherein said supplying step includes supplying said data from said transmission apparatus to said one receiving terminal via a communication satellite based on said unique terminal information.

7. (currently amended) The data transmitting method according to claim 21, wherein said supplying step includes supplying said data using an Internet connection from said transmission apparatus to said one receiving terminal based on said unique terminal information.

8. (currently amended) The data transmitting method according to claim 21, wherein said supplying step includes supplying said data from said transmission apparatus to said one receiving terminal through a terrestrial circuit based on said unique terminal information.

9. (currently amended) The data transmitting method according to claim 21, wherein said data supplied by said transmission apparatus is displayed on a display apparatus of said one receiving terminal based on said unique terminal information.

10. (previously presented) The data transmitting method according to claim 1, wherein said unique terminal information corresponds to a unique physical address assigned to said one

receiving terminal.

11. (previously presented) A system for transmitting data comprising:

a plurality of receiving terminals; and

a transmission apparatus operable to receive authentication data associated with one of said plurality of receiving terminals, to authenticate said authentication data, and to transmit unique terminal information identifying said one receiving terminal as a destination of transmission and an update program to change the processing of said one receiving terminal;

said one receiving terminal being operable to output said authentication data, to receive said unique terminal information and said update program, to communicate with said transmission apparatus via an Internet system, and to receive a digital broadcasting signal, and said one receiving terminal including a specified storage location operable to store said unique terminal information and said update program to update said processing;

wherein said unique terminal identification information is selected in a manner unrelated to said authentication data, and said transmission apparatus transmits said unique terminal information converted into a key ID to said one receiving terminal and said one receiving terminal converts said converted unique terminal information back to said unique terminal information and then stores said unique terminal information in said storage location; and

wherein said one receiving terminal transmits to said transmission apparatus a transfer request based on said update program, and said unique terminal information and said transmission apparatus supplies data responsive to said transfer request to said one receiving terminal based on said unique

terminal information.

12-15. (canceled)

16. (currently amended) The data transmitting system according to claim ~~12~~11, wherein said transmission apparatus supplies said data to said one receiving terminal via a communication satellite based on said unique terminal information.

17. (currently amended) The data transmitting system according to claim ~~12~~11, wherein said transmission apparatus supplies said data using an Internet connection to said one receiving terminal based on said unique terminal information.

18. (currently amended) The data transmitting system according to claim ~~12~~11, wherein said transmission apparatus supplies said data to said one receiving terminal through a terrestrial circuit based on said unique terminal information.

19. (currently amended) The data transmitting system according to claim ~~12~~11, wherein data supplied from said transmission apparatus is displayed on a display apparatus of said one receiving terminal based on said unique terminal information.

20. (previously presented) The data transmitting system according to claim 11, wherein said unique terminal information corresponds to a unique physical address assigned to said one receiving terminal.

21. (currently amended) A receiving system for receiving data transmitted from a transmission apparatus, comprising:

a plurality of receiving terminals, one of said plurality of receiving terminals being operable to communicate with the transmission apparatus via an Internet system, to receive a digital broadcasting signal, to output authentication data associated with said one receiving terminal, and, upon authentication of said authentication data by said transmission apparatus, to receive unique terminal information identifying said one receiving terminal as a destination of transmission and an update program for changing the processing of said one receiving terminal;

a storage location operable to store said unique terminal information and said update program received by said receiving terminal;

a transfer request generated based on said update program and transmitted to the transmission apparatus along with said unique terminal information; and

data responsive to said transfer request supplied by the transmission apparatus to said one receiving terminal based on said unique terminal information;

wherein said unique terminal information is selected in a manner unrelated to said authentication data, and converted unique terminal information is obtained by converting said unique terminal information into a key ID.

22-25. (canceled)

26. (currently amended) The receiving system according to claim 2221, wherein said data is transmitted via a communication satellite based on said unique terminal information.

27. (currently amended) The receiving system according to claim 2221, wherein said data is transmitted using an Internet connection based on said unique terminal information.

28. (currently amended) The receiving system according to claim 2221, wherein said data is transmitted through a terrestrial circuit based on said unique terminal information.

29. (currently amended) The receiving system according to claim 2221, wherein said data transmitted from the transmission apparatus is displayed on a display based on said unique terminal information.

30. (original) The receiving terminal according to claim 21, wherein said unique terminal information is a unique physical address corresponding to said receiving terminal, and is fixedly assigned to said receiving terminal.

31. (currently amended) A method of receiving data transmitted from a transmission apparatus to one of a plurality of receiving terminals, comprising:

communicating between said one receiving terminal and the transmission apparatus via an Internet system, said one receiving terminal being operable to receive a digital broadcasting signal;

receiving unique terminal information identifying said one receiving terminal as a destination of transmission and an update program for changing the processing of said one receiving terminal, said unique terminal identification information being selected in a manner unrelated to authentication data associated with said one receiving terminal;

converting said unique terminal information into a key ID;

storing said unique terminal information and said update program received by said one receiving terminal in a storage location;

transmitting said unique terminal information and a transfer request based on said update program from said one receiving terminal to said transmission apparatus; and

receiving data transmitted from said transmission apparatus in response to said transfer request based on said unique terminal information.

32-35. (canceled)

36. (currently amended) The data receiving method according to claim 3231, wherein said data is transmitted from said transmission apparatus via a communication satellite based on said unique terminal information.

37. (currently amended) The data receiving method according to claim 3231, wherein said data is transmitted from said transmission apparatus using an Internet connection based on said unique terminal information.

38. (currently amended) The data receiving method according to claim 3231, wherein said data is transmitted from said transmission apparatus through a terrestrial circuit based on said unique terminal information.

39. (currently amended) The data receiving method according to claim 3231, wherein said data transmitted from said transmission apparatus is displayed on a display based on said unique terminal information.

40. (previously presented) The data receiving method according to claim 31, wherein said unique terminal information is a unique physical address corresponding to said one receiving terminal.

41. (previously presented) The data transmitting method according to claim 1, wherein said unique terminal identification information comprises a MAC address of said one receiving terminal.

42. (previously presented) The data transmitting system according to claim 11, wherein said unique terminal identification information comprises a MAC address of said one receiving terminal.

43. (previously presented) The receiving system according to claim 21, wherein said unique terminal information comprises a MAC address of said one receiving terminal.

44. (previously presented) The data receiving method according to claim 31, wherein said unique terminal information comprises a MAC address of said one receiving terminal.

45. (withdrawn) A method of transmitting data between a provider device and one of a plurality of client devices remote from the provider device, comprising:

transmitting recognition data from a first one of the client devices to the provider device, the recognition data being unique to the first client device;

the provider device authenticating the recognition data;

the provider device assigning a MAC address to a receiving device coupled to the first client device, the MAC address being a unique address for use with a receiver device and being unrelated to the recognition data of the first client device;

the provider device generating a unique key ID based



on the MAC address;

transmitting a software application, a download application and the unique key ID from the provider device to the first client device;

executing the download application to identify the unique key ID on the first client device;

validating the unique key ID with the first client device; and

if the unique key ID is validated:

transferring the software application to the receiver device;

retrieving the MAC address from the unique key ID; and

transferring the MAC address to the receiver device for use as a new address of the receiver device.

46. (withdrawn) A system, comprising:

a provider device;

a plurality of client devices remote from the provider device, a first one of the plurality of client devices having recognition data associated therewith, the recognition data being unique to the first client device; and

a plurality of receiver devices, a first one of the receiver devices having an address associated therewith and being coupled to the first client device;

wherein the provider device is operable to authenticate the recognition data of the first client device, to assign a unique MAC address unrelated to the recognition data of the first client device to the first receiver device, to generate a unique key ID based on the MAC address and to transmit a software application, a download application and the unique key ID to the first client device, and

wherein the client device is operable to execute the

download application to identify the unique key ID, to validate the unique key ID, and, if the unique key ID is validated, to transfer the software application to the receiver device, to retrieve the MAC address from the unique key ID, and to transfer the MAC address to the receiver device for use as a new address of the receiver device.